PCT





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6; G08B 21/00

(11) International Publication Number:

WO 98/29847

A1

(43) International Publication Date:

9 July 1998 (09.07.98)

(21) International Application Number:

PCT/GB98/00015

(22) International Filing Date:

5 January 1998 (05.01.98)

(30) Priority Data:

9700090.5

4 January 1997 (04.01.97)

GB

(71)(72) Applicants and Inventors: HORNE, James, Anthony [GB/GB]; 9 The Drive, Woodhouse Eaves, Leicestershire LE11 3TU (GB). REYNER, Louise, Ann [GB/GB]; 20 Station Road, Quorn, Leicestershire LE12 8BS (GB).

(74) Agent: TILLBROOK, Christopher, John; 1 Mill Street, Warwick CV34 4HB (GB).

(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CP, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: SLEEPINESS DETECTION FOR VEHICLE DRIVER OR MACHINE OPERATOR

(57) Abstract

A vehicle driver or machine operator sleepiness monitor (10), configured as a self-contained module (11), for steering wheel or dashboard mounting, provides for individual driver/operator interrogation and response, combined with various objective sensory inputs (13, 15, 27, 29) on vehicle condition and driver control action, and translates these inputs into weighting factors to adjust a biological activity circadian rhythm reference model, in turn to provide an audio-visual sleepiness warning indication (18).

